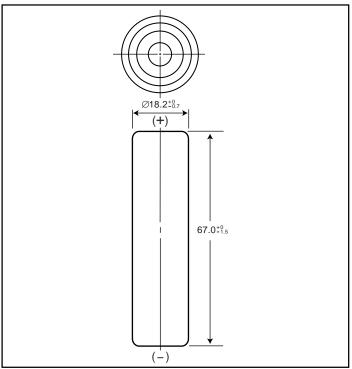
NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

HHR330APH Cylindrical L-Fat A size (HR 18/67)

Dimensions (with Tube)

(mm)



Specifications

	mm	inch
Diameter	18.2+0/-0.7	0.72+0/-0.03
Height	67.0+0/-1.5	2.64+0/-0.06
Approximate	Grams	Ounces
Weight	60	2.12

Nominal Voltage		1.2V		
Discharge Capacity ¹		Average ²	3300 mAh	
		Rated (Min.)	3200 mAh	
Approx. Internal impedance		5.5mΩ		
at 1000Hz at charged state.				
	Standard	330mA x 16hrs.		
Charge		Rapid ³	1650mA x 2.4 hrs.4	
39.	Low Rate	165mA x 32 hrs.		
Low Nate		110mA x 48 hrs.		
t ure	Charge Standar	Ctomolonal	°C	°F
		Standard	-10°C to 60°C	14°F to 140°F
		Rapid	-10°C to 45°C	14°F to 113°F
ਹੁੰ ਹੈ Discharge		charge	-10°C to 60°C	14°F to 140°F
Ambient Temperature	Storage	< 1 year	-20°C to 35°C	-4°F to 95°F
		< 6 months	-20°C to 45°C	-4°F to 113°F
		< 1 month	-20°C to 55°C	-4°F to 131°F
		< 1 week	-20°C to 65°C	-4°F to 149°F

- After charging at 0.1lt for 16 hours, discharging at 0.2lt.
- ² For reference only.
- Need specially designed control system

Control System:

dT/dt cut-off; 1 to 2°C/min

 $-\triangle V$ cut-off; $-\triangle V$ per cell = 5 to 10 mV

T-control; T=65°C

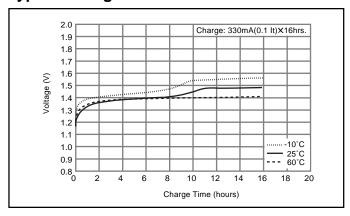
Rapid charger timer; 2.4h (at 1.25a)

Trickle timer; within 2h

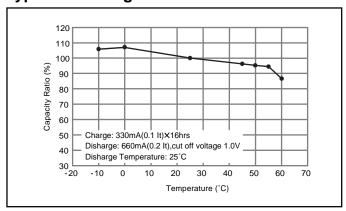
⁴ With control system

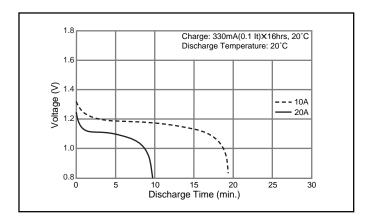
Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

Typical Charge Characteristics



Typical Discharge Characteristics





Note: [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as: It(A) = Cn (Ah)/1h.

- [It] is the reference test current in ampres
- [Cn] is the rated capacity of the cell or battery in Ampere-hours. n = the time base [hours] for which the rated capacity is declared

